

4.5 PSP Cover Sheet (Attach to the front of each proposal)Proposal Title: 1999/2000 Bay-Delta Education ProgramApplicant Name: Water Education FoundationMailing Address: 717 K Street, Suite 517, Sacramento, CA 95814Telephone: 916-444-6240Fax: 916-448-7699Email: rsudman water-ed.orgAmount of funding requested: \$ 122,500 for 2 years

Indicate the Topic for which you are applying (check only one box).

- | | |
|--|---|
| <input type="checkbox"/> Fish Passage/Fish Screens | <input type="checkbox"/> Introduced Species |
| <input type="checkbox"/> Habitat Restoration | <input type="checkbox"/> Fish Management/Hatchery |
| <input type="checkbox"/> Local Watershed Stewardship | <input checked="" type="checkbox"/> Environmental Education |
| <input type="checkbox"/> Water Quality | |

Does the proposal address a specified Focused Action? yes ☒ noWhat county or counties is the project located in? All if whole project funded
* Optional So. CA Component in one project

Indicate the geographic area of your proposal (check only one box):

- | | |
|---|--|
| <input type="checkbox"/> Sacramento River Mainstem | <input type="checkbox"/> East Side Trib: _____ |
| <input type="checkbox"/> Sacramento Trib: _____ | <input type="checkbox"/> Suisun Marsh and Bay |
| <input type="checkbox"/> San Joaquin River Mainstem | <input type="checkbox"/> North Bay/South Bay: _____ |
| <input type="checkbox"/> San Joaquin Trib: _____ | <input checked="" type="checkbox"/> Landscape (entire Bay-Delta watershed) |
| <input type="checkbox"/> Delta: _____ | <input type="checkbox"/> Other: _____ |

Indicate the primary species which the proposal addresses (check all that apply):

- | | |
|---|---|
| <input checked="" type="checkbox"/> San Joaquin and East-side Delta tributaries fall-run chinook salmon | <input checked="" type="checkbox"/> Spring-run chinook salmon |
| <input checked="" type="checkbox"/> Winter-run chinook salmon | <input checked="" type="checkbox"/> Fall-run chinook salmon |
| <input checked="" type="checkbox"/> Late-fall run chinook salmon | <input checked="" type="checkbox"/> Longfin smelt |
| <input checked="" type="checkbox"/> Delta smelt | <input checked="" type="checkbox"/> Steelhead trout |
| <input checked="" type="checkbox"/> Splittail | <input checked="" type="checkbox"/> Striped bass |
| <input checked="" type="checkbox"/> Green sturgeon | <input checked="" type="checkbox"/> All chinook species |
| <input checked="" type="checkbox"/> Migratory birds | <input checked="" type="checkbox"/> All anadromous salmonids |
| <input type="checkbox"/> Other: <u>All species</u> | |

Specify the ERP strategic objective and target (s) that the project addresses. Include page numbers from January 1999 version of ERP Volume I and II: (used Feb. 99 version)

This project includes all regions in Vol II. Covers all CALFED objectives including: conserving wetlands (Vol I, pg 103); decreasing nonpoint source pollution (Vol I, pg 100&506); and restoring Chinook salmon (Vol I, 220).



WATER EDUCATION FOUNDATION

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Nonprofit Organization, tax-exempt

Tax ID: 94-2419885

The mission of the Water Education Foundation, an ingained, nonprofit organization, is to develop and implement education programs leading to a broader understanding of water issues and to resolution of water problems.

Executive Summary

The Water Education Foundation's 1999/2000 Bay-Delta Education Program consists of separate but complimentary projects that together would exponentially increase the public's awareness and understanding of the issues affecting the Bay-Delta, and make it feasible for members of the public to support CALFED while altering their behavior to be a part of environmental solutions.

► **Briefing Paper on Wetlands and Marshes**

The Water Education Foundation has provided up-to-date and usable information through the use of Layperson's Guides, *Western Water* magazine, and other publications for more than 20 years. The Foundation has provided information on water issues in general with the 15 Layperson's Guides by covering such important topics as California Water, the Delta, Water Pollution, and Water Conservation, and two recent issues of the bi-monthly *Western Water* covered developments of CALFED. The Briefing Paper on Wetlands and Marshes would be a timely reference tool to add to these publications, educating the public about CALFED's objective to restore and protect wetlands and marshes.

This publication would include the history of wetlands conversion, how we came to realize that wetlands and marshes serve important water quality and flood management functions, and the importance of the habitat for numerous resident and migratory waterfowl, and many species of fish, plants, invertebrates, amphibians, reptiles, and mammals. The Briefing Paper on Wetlands and Marshes would highlight the benefits and values of wetlands in California, with a special focus on the Delta. Attention will be paid to the costs and benefits of wetlands restoration and options for mitigating historic reclamation. In addition, the publication will discuss the causes of decline of the health of wetlands, making the connection between this valuable resource and how our society is choosing to manage open space and water resources, discuss the controversies, and show the critical importance of non-native plant and animals. 3,000 Briefings will be printed, and major portions of this publication will be added to the Foundation's web site which receives at least 3,000 visits per month, and the Foundation is committed to revising this electronic document as is necessary. The distribution of this publication and visits to the document on the internet will be monitored.

► **Water Minute Radio Broadcasts**

In addition to the written media, radio has the potential to increase the public's understanding and appreciation of water resources by repeatedly making connections between water issues and the daily routines of Californians. This is a low cost tool to reach millions of people. The Foundation proposes to develop a series of 30 and 60 second radio broadcasts that would address such topics as water conservation, nonpoint source pollution, environmental restoration, and invasive species - all of which support CALFED's objectives. By repeatedly airing the "water minutes," we can introduce listeners to these important subjects, while bringing their attention to where their water comes from, how it is made available to them, and the resource choices facing them. Successful models include the "Stargazer" radio programs and the U.S. Census Bureau's campaigns, both which have greatly heightened the visibility of the issues they promote.

This series of professional-quality programs will consist of 15 components. They will air on several stations within four key regions within the Geographic Scope of the CALFED Bay-Delta Program during the spring months of 2000: Fresno, Redding, Sacramento, and the San Francisco Bay Area. As an additional program component, they will be broadcast in the San Diego and Los Angeles areas if you believe, as the Foundation does, that residents in southern California must understand Bay-Delta issues also. Stations selected to air the programs will be chosen to ensure a diversity of listeners, and will include a mix of news, talk, and music stations. Air time will be solicited as donations, but much air time will need to be purchased as the Federal Communication Commission (FCC) no longer requires that stations donate time for community service announcements.

► **Hydroexplorer: A California Waterways Adventure**

The Water Education Foundation proposes to update one of its valuable education tools, the "Hydroexplorer: A California Waterways Adventure" computer game. The Foundation is at the forefront of children's education on water resources and one of the most valuable tools has been a series of Hydroexplorer computer games. The most relevant game to the Bay-Delta system is Hydroexplorer: a California Waterway Adventure, which allows players to guide a submarine through the watersheds of the Sacramento, Feather, and San Joaquin rivers. This game teaches players about the geography of these waterways, the dynamics of a watershed, and water allocation. These concepts are the basis for understanding the current difficulties and measures being taken to restore the Bay-Delta. The game is distributed with a teacher's manual packed with interdisciplinary lesson plans that satisfy California's teaching requirements.

Since the Hydroexplorer game was originally produced, technology has improved in ways that makes the game difficult to use (please see the attached letter by Kim Epperson). Elementary schools are currently very interested in using computers in their classrooms, so the Foundation proposes to revise and update the game to be compatible with the most current version of Windows (for Macintosh and IBM-compatible computers). In addition, a section specifically on the Bay-Delta will be added which will teach about topics including wetlands, the salmon life cycle, and water quality and drinking water, all of which support CALFED goals and objectives. Sections of the game will be posted on the Foundation's web site which receives at least 3,000 visitors each month, many of which are children looking for ways to learn about water issues. 500 copies of this updated game will be distributed free to educators through a variety of avenues, including Foundation workshops, conferences, and water district sponsored education programs that partner with the Foundation.

► **Journalists Tour of the Bay-Delta**

The Foundation received CALFED funding in 1998 to host a tour for journalists relating to the Bay-Delta. By educating the media, this project will ensure that Bay-Delta issues maintain a high visibility in the press, and that accurate and up-to-date information is relayed to the public. The response to this free tour, scheduled for May 8, 1999, has been strong and indicates a need for additional services. The Foundation proposes to host another tour in 2000 that will keep the 1999 tour attendees continually informed, but also to educate reporters that may be unable to attend this year's tour. Issues to be discussed during the 1999 tour agenda include the balance of water uses, dependent fish species, and Delta agriculture. This project supports CALFED's goal to increase the public's understanding of resource issues, and through this education, encourage thoughtful water use and resource care.

► **Update "Setting a Course: the California Bay-Delta"**

The Foundation produced a high quality and well distributed public television documentary on the Bay-Delta. This program satisfied a dire need for public understanding of CALFED and the importance of the Bay-Delta. This documentary, narrated by actor Timothy Busfield, explained issues such as historic water allocation, dependent species, and water quality concerns. In the May 1998 proposal to CALFED, the Foundation requested funding to update the documentary. It was recommended that the Foundation solicit general funds from CALFED. Funding was solicited in this fashion and there has been no response. Even so, the Foundation revised the documentary after the release of the December 1998 draft report, and will be releasing this new program to the PBS satellite system on April 18th, 1999. The Foundation subsequently made all of this revised footage available to CALFED for the creation of a summary video produced in January 1999. Given the vital need to keep the public informed of CALFED's progress in these ways, we ask that you seriously consider allocating funding to update the documentary once the revised draft programmatic EIS/EIR is released in 2000, allowing the PBS/CALFED partnership to continue into 2000.

Project Description

Proposed Scope of Work

► **Briefing Paper on Wetlands and Marshes**

Project management - The Water Education Foundation has much experience producing publications on water resources. In addition to the popular Layperson's Guide series, the Foundation publishes *Western Water* for a readership of nearly 20,000. Project management of the Briefing Paper on Wetlands and Marshes would be handled by the organization's executive director and chief writer.

Deliverable: Project oversight and support

Schedule: Fall 1999 - Summer 2000

Research - This same experienced staff will be responsible for thoroughly researching the many issues relating to wetlands and marshes. The high degree of expertise on water resource issues makes Foundation staff highly capable of performing this efficiently and effectively. In addition, staff will select individuals from diverse interests to review the draft Briefing.

Deliverable: Thorough compilation of information and data relating to wetland and marshes in the western United States, with a special emphasis on the Bay-Delta. An advisory committee committed to review draft of Briefing.

Schedule: Fall 1999 - Spring 2000

Writing - The same capabilities that qualify the Foundation to research wetlands and marshes will allow them to write a thorough and easy-to-understand document.

Deliverable: A draft of the Briefing Paper on Wetlands and Marshes that can be shared with advisors identified in research task.

Schedule: Spring 2000 - Summer 2000

Review/editing - As with the Layperson's Guides and *Western Water* magazine, members of diverse stakeholder groups will review the content of the Briefing to ensure balance, accuracy, and completeness.

Deliverable: A ready to print publication thoroughly exploring wetlands and marshes.

Schedule: Spring 2000

Design/printing - The design and printing of the Briefing will be attractive and consistent in quality with all of the Foundation's publications to date.

Deliverable: A 12 - 20 page publication thoroughly exploring wetlands and marshes in the western united states, with a special emphasis on the Bay-Delta

Schedule: Summer 2000

Web site addition - Major portions of the Briefing will be added to the heavily visited Foundation web site and will be updated as necessary. This is one component that could be separated from the other part of the project. This is not recommended, however, as easy access for the public and the ability of Foundation staff to quickly update the electronic Briefing could greatly increase the use of the information contained in the publication, making the most of the initial financial and time investments.

Deliverable: Availability of Briefing on internet with revisions as necessary.

Schedule: Summer 2000 - ongoing

► **Water Minute Radio Broadcasts**

Project Management - Foundation staff are well qualified to manage a project of this scope given staff's extensive education and experience dealing with media, communications, and journalism.

Deliverable: Efficient project management and oversight.

Schedule: Fall 1999 - ongoing

Research - The Foundation is well prepared to produce these radio broadcasts as the Foundation is a resource itself on water issues. By relying on the research of past, future, and ongoing projects, the Foundation can heavily depend on information it has already collected.

Deliverable: A compilation of facts, figures, and target audience messages.

Schedule: Fall 1999 - Winter 2000

Production - The Foundation will use internal expertise and outside technical assistance to produce the radio minutes. The Foundation's executive director is a past radio and television reporter and producer.

Deliverable: 15 radio spots focusing on Bay-Delta water issues.

Schedule: Winter 2000 - Spring 2000

Distribution - The radio spots will be aggressively marketed to radio stations within CALFED's geographic scope. In-kind donations of air time will be supplemented with paid air time as necessary.

Deliverable: Airing of radio spots in Fresno, Redding, Sacramento, and San Francisco Bay Area.

Schedule: Spring 2000 - ongoing

Additional Distribution - The Foundation proposes to broadcast the radio minutes to southern California regions also. Although this is outside of the geographic scope of this RFP, it is critical that the citizens in the southern state understand that the Bay-Delta is more than a northern California issue. This segment of the project can be separated if necessary.

Deliverable: Airing of radio spots in San Diego and Los Angeles.

Schedule: Spring 2000 - ongoing

► **Hydroexplorer: A California Waterways Adventure**

Project Management - The Foundation has created a series of Hydroexplorer computer games which have educated thousands of children about water issues through interactive play. Making this game compatible with current technology and adding a Bay-Delta component will build on this success.

Deliverable: Experienced oversight of update of computer game.

Schedule: Fall 1999 - ongoing

Research - Research will ensure that the increased emphasis on the Bay-Delta system is geared appropriately for upper elementary students and that the materials fits with the state's required educational frameworks. This is necessary to be sure teachers can fit the game into what they are already teaching.

Deliverable: Age appropriate lessons on Bay-Delta system.

Schedule: Fall 1999 - Spring 2000

Programming - Programming will upgrade the game to make it usable for current technology and to make the game compatible for distribution through the heavily visited Foundation web site.

Deliverable: Hydroexplorer game compatible with current technology.

Schedule: Spring 2000 - Summer 2000

Production - The game will be produced in the same manner as the original game, as this format was popular with educators.

Deliverable: A high quality, successful computer game ready for use by educators and students.

Schedule: Summer 2000 - Fall 2000

Distribution - The game will be distributed free to County Offices of Education and water districts that utilize the past version of the game in their school program. Sections of the game will also be on the Foundation web site. It will also be made available through the Foundation's catalogue and web site.

Deliverable: 500 Hydroexplorer games will be given to educators.

Schedule: Fall 2000 - ongoing

► **Journalists Tour of the Bay-Delta**

Project management - This tour will be managed by the same individuals who are managing the 1999 tour, which has yet to occur, but has had an overwhelmingly positive response from the press.

Deliverable: An efficiently managed journalists tour of the Bay-Delta.

Schedule: Winter 2000 - Spring 2000

Planning - Based on the experiences and participant evaluations of the May 1999 tour, this tour will be planned to include a physical tour of key delta sites and an overview of the current topics that the media can write about accurately and often.

Deliverable: Tour itinerary that reflects current CALFED issues and needs of journalists.

Schedule: Winter 2000 - Spring 2000

Marketing - This tour will be publicized such that reporters in the western United States are aware of the benefits they will get by attending. This publicity is the first of many ways in which this tour will further raise the visibility of Bay-Delta issues for the media.

Deliverable: Letter to approximately 400 journalists, press release, and announcement in *Western Water* magazine.

Schedule: Winter 2000 - Spring 2000

Implementation - Implementation of the tour will incorporate comments derived from participant evaluations from the 1999 tour. It is anticipated that the tour will be hosted in the spring of 2000.

Deliverable: Tour for 30-40 journalists.

Schedule: Spring 2000

► **Update "Setting a Course: the California Bay-Delta"**

(Schedule may fluctuate based on release of CALFED's revised draft programmatic EIS/EIR.)

Project Management - The Foundation produced this documentary and updated it once with supplementary funding. All the revised material was made available for creation of CALFED's summary video. This update, therefore, will be effectively managed based on past experience and distributed to television programmers that trust the Foundation's strong reputation.

Deliverable: An efficiently managed update of the documentary after CALFED's revised draft programmatic EIS/EIR is released.

Schedule: Summer 1999 - ongoing

Research - Foundation staff will ensure that the update is thorough and accurate and that all stakeholder viewpoints are covered.

Deliverable: New footage and filmed interviews to reflect current topics of discussion.

Schedule: Summer 1999 - Winter 2000

Production - Using an already cohesive production team, including Sue Pearson Atkinson, new interviews will be filmed, new footage inserted, and information updated in the video and Viewer's Guide.

Deliverable: A revised and updated 60 minute and 15 minute videos (edited version) and Viewer's Guide (with classroom exercise).

Schedule: Fall 1999 - Spring 2000

Distribution - The program will be distributed to the Public Broadcasting System satellites and to cable television networks. The updated 15 minute educational video and Viewer's Guide will also be used by elementary and high school educators.

Deliverable: Substantial number of viewers educated and informed about CALFED's objectives, policies, and programs.

Schedule: Spring 2000

Geographic Boundaries of the Project

The Water Education Foundation's 1999/2000 Bay-Delta Education Program is designed to reach to widest audience possible. This is deemed appropriate because all the residents of the Bay-Delta region, and 2/3 of the state, depend on the water system and have the ability to positively or negatively affect the resource. This program will increase the public's awareness of delta issues, and pave the way for citizens to be more involved in supporting public policies and programs such as CALFED.

Ecological/Biological Benefits

Ecological/Biological Objectives

Each of the projects described below support CALFED's overall educational objectives to increase public understanding of water and other natural resource issues. This awareness is the foundation upon which the public can support the CALFED program, and it is the only sustainable motivator that gets people to re-evaluate their personal resource decisions and get involved in conservation and restoration projects. Each of the projects has system-wide ecosystem benefits as they are complimentary projects that reach the public at different age groups, knowledge levels, and with media that attract the attention of diverse populations throughout CALFED's geographic scope. Together, the projects provide benefits for not only CALFED's restoration objectives, but the water quality and water supply reliability objectives also, by educating people about nonpoint source pollution and encouraging water conservation.

► Briefing Paper on Wetlands and Marshes

The primary ecological/biological objectives of the Briefing Paper are to create a better understanding and appreciation of wetlands and marshes among individuals, private organizations, and agencies. The general public has a limited understanding of the ecological value of wetland areas. To most casual viewers, wetlands are unattractive, "available" lands that could be "reclaimed" and put to use for urban projects, agriculture, or other development. In truth, wetlands and marshes are among the most productive habitats in the Bay-Delta region and the sustainability of many fish and other species are dependent upon them. There are many costs and benefits centered around this issue, and the Briefing Paper will highlight them.

Wetland habitats in the Delta system have been altered by land and water development so thoroughly that many fish, plant, bird, mammal, reptile, and amphibian species that depend on this habitat have been declared threatened or endangered. Among the issues addressed in this publication will be the background of wetland reclamation, water rights, environmental restoration projects, mitigation, and regulations such as the Clean Water Act and the Endangered Species Act. Increased knowledge of the biological value of wetlands and the available options for restoration, mitigation, and innovative farming may precipitate an alleviation of the stressors on such species as the Suisun Song Sparrow, the Alameda Song Sparrow, the Salt Marsh Harvest Mouse, and numerous special-status plant species. Based upon national research, a well informed public has a greater capacity for acting in the interest of the environment (National Environmental Education & Training Foundation, 1998). Benefits of this publication can be indirectly measured by how many are distributed. This publication has built in durability because public education cannot be reversed, and the information in the publication will be available on the Foundation's internet site and will be updated as necessary. This publication will assist CALFED in achieving its strategic objectives for habitat preservation by encouraging public support and participation in conservation efforts. A greater public value of wetlands and marshes will increase public knowledge of CALFED's objectives to 1) restore wetlands and marshes in the Delta, Suisun Bay, Suisun Marsh, and the San Francisco Bay; 2) restore large expanses of all aquatic, wetland, and riparian habitats in the Central Valley and its rivers; 3) increase the area of tidal marsh; 4) decrease conversion of wetlands and marshes to other uses; and 5) manage Yolo and Sutter bypasses as seasonal wetlands (vol I, pg. 103).

► Water Minute Radio Broadcasts

The primary ecological/biological objective of this series of 30 and 60 second radio broadcasts is to encourage the public to participate in decreasing the stressors on the species dependent on Bay-Delta system habitats. Topics covered by this series include environmental restoration, water conservation, nonpoint source pollution, and invasive species, all topics needing to be understood if the stressors in the Bay-Delta system are to decline. The objectives to recover and restore Chinook Salmon, for example, (vol I, pg. 220)

could be assisted by these broadcasts by educating the public about how water use, water diversions, stream flows, and pollution affect the salmon populations. By increasing the public's awareness of CALFED's restoration projects addressing these concerns, ecosystem funding will be supported and participation encouraged. Also, this project will support the objectives to increase the health of the Bay-Delta system by decreasing the activities that lead to nonpoint source pollution (vol I, pg. 100 & 506).

Education programs that raise the public's understanding of how contaminants from agricultural and urban runoff affect waterways can have a great impact. Four out of five Americans do not know that urban runoff is the leading water quality problem, but feel comfortable pointing the finger at industrial factories (NEETF, 1998). The behavior of individuals will not change without widespread knowledge of the importance of nonpoint source pollution. These radio broadcasts will impart this knowledge and let the public know how to do their part in preventing nonpoint source pollution. This program would make the most of the relationships that the Foundation has created through its past work with the State Water Resources Control Board, Integrated Waste Management, Department of Water Resources, and others. The benefits of this program are expected to be a greater visibility of Bay-Delta issues among members of the public who are not normally informed about water issues.

► **Hydroexplorer: A California Waterways Adventure**

The primary ecological/biological objective of this computer game for upper elementary students is to increase young people's understanding of the Bay-Delta system and encourage wise use of resources and participation in alleviating the stressors on the species dependent on Bay-Delta system habitats. This game teaches upper elementary students about the Bay-Delta watershed, California's water delivery system, and water allocation conflicts. The benefits of education such as this are that young students will be able to understand where their water comes from and why they need to use it wisely. The special focus to the Bay-Delta will teach students about the importance of wetlands, the salmon life cycle, delta agriculture, and issues affecting drinking water quality. The basic understanding of California's water system and its challenges is self-sustaining in that related concepts are continually in the media and will be referred to in the children's academic education. This project will make the most of the Foundation's extensive education program because partners who utilize the Foundation's tools in their programs, including all County Offices of Education and many water districts, will receive complimentary games. The Foundation is also producing slide cards which teach students about salmon and non-native species, for example. These CALFED funded slide cards can be used in conjunction with the computer game.

► **Journalists Tour of the Bay-Delta**

The primary ecological/biological objective of the journalists tour is to support the CALFED objectives by increasing the program's visibility in the media and by ensuring that the information disseminated is accurate and up-to-date. In a study of the public's knowledge of environmental issues, it was discovered that the "media plays a critical role in informing the public about the environment" (NEETF, 1998). Given the importance of media, it is critical to increase the number of accurate articles, and television and radio news spots devoted to Bay-Delta issues. This tour will build on the success of the CALFED funded 1999 tour. Scheduled for May 15th, this year's tour discusses balancing water needs, the Delta agriculture, and drinking water quality. Topics for the tour in 2000 will be adjusted to address the most important issues facing resource managers and water users. The benefits of this tour are an increase in the media's coverage of Delta issues, and a better informed public. Both of these benefits are durable and self sustaining.

► **Update "Setting a Course: the California Bay-Delta"**

The primary ecological/biological objectives of this public television documentary are to create a better understanding and appreciation of the issues that CALFED was created to address. The previous version of this public television documentary was seen by approximately 500,000 viewers on public television, was used by many agencies, schools, and agencies, and was the basis for the video that CALFED produced in January 1999, as the Foundation made its up-to-date footage available. With a new draft programmatic EIS/EIR upcoming, it is imperative that the Foundation's documentary be kept current so it can be used extensively.

Funding from CALFED will compliment the distribution networks already established by the Foundation for getting the documentary to many viewers through the Public Broadcasting System and other avenues. Funding for a revision would also make the most of the time and financial investment already committed to this documentary by CALFED, as it was one of the first funders and users of the original program. This program supports the strategic goals of the CALFED program of achieving recovery of at-risk species, rehabilitating natural processes, maintaining sustainable populations of selected species for commercial and recreational harvest, protecting habitats throughout the system, preventing introduction of non-native species, and improving water quality (vol I, pg 1). Within these overall strategic goals, topics covered in the documentary include CALFED's objectives to conserve habitat by restoring large tracts in the Delta, Suisun Bay, and the San Francisco Bay, restoring wetland areas in the Central Valley, increasing the area of tidal marsh, halting marshland reclamation, and management of the Yolo and Sutter bypasses (vol I, pg. 103). In addition, many of the subobjectives for each habitat type are discussed in the video.

Technical Feasibility and Timing

► **Briefing Paper of Wetlands and Marshes**

The technical aspects of this project are related to the biological functions of wetlands and marshes, the relationships of the species dependent upon wetlands and marshes, and the regulatory framework that a land manager would need to work within. The Water Education Foundation has a publication in progress that discusses the regulatory framework within which conservation and restoration projects operate. The timing of this proposed publication is based upon public discussions spurred by the CALFED objectives to restore and protect wetlands and marshes. There are no readily available publications that discuss the variations of wetland habitat as classified and researched by experts such as Peter Moyle (please see attached letter of support by Dr. Moyle) in an easy-to-understand manner. In order for the public to truly support the conservation and restoration measures envisioned by CALFED, they must understand the critical differences between such habitats as vernal pools and saline emergent wetlands.

► **Water Minute Radio Broadcasts**

The technical aspects of producing radio programs are easily addressed by the Foundation staff, as the executive director is a former radio and television reporter and producer. The schedule of production is planned so that the broadcasts that focus on nonpoint source pollution can be aired in the spring of 2000 to coincide with the periods in which urban residents use higher levels of pesticides, fungicides, and fertilizers which all contribute to water pollution. Water conservation is a strong message during this time also as many gardens are re-landscaped, leaving the option of water-wise landscaping, and people increase their irrigating. All of these habits can be modified with repeated airing of sound-bite radio messages.

► **Hydroexplorer: A California Waterways Adventure**

The technical aspects of this game are dictated by current computer technology. The issues are clearly identifiable and easily manageable by the Foundation because of its experience producing a series of Hydroexplorer games (please see that attached letter from Kim Epperson discussing teachers' current experiences with the game). It is also crucial that the game is compliant with the California state education frameworks, which dictate the requirements teachers must teach. New history and social science/science frameworks were released in 1998, and the new Hydroexplorer game will be kept in compliance with these regulations. Without this, teachers will not use the game as they will use other tools that help them satisfy the requirements. The game is expected to be released in the fall of 2000 to be timed with the return of school for upper elementary students. This is the time when teachers plan their curriculum for the year.

► **Journalists Tour of the Bay-Delta**

The technical aspects of this tour will be the information shared with the media representatives. There will be speakers representing diverse stakeholder groups that are knowledgeable about the technical issues. This tour is scheduled to be in the Spring of 2000 based upon the preference of this years attendees. The evaluations of the 1999 tour will solicit comments on timing.

► **Update "Setting a Course: the California Bay-Delta"**

The Water Education Foundation has gained an expertise in producing and airing documentaries on public television. This experience will be used to address the technical skills needed to film updated footage for the documentary, edit the new segments in, and handle distribution among public television stations and other outlets, including duplication for public distribution. The timing is based upon release of the revised draft programmatic EIS/EIR of the CALFED program.

Monitoring and Data Collection Methodology

► **Briefing Paper on Wetlands and Marshes**

The success of this publication will be dictated by how many are requested from the Foundation and the number of people that visit the document on the internet. The Foundation will send a press release announcing the Briefing's hard copy and electronic availability, list the publication as a new product on its heavily used internet site, and will place an announcement in *Western Water* magazine.

► **Water Minute Radio Broadcasts**

Each radio station that broadcasts the program can project the number of listeners. In addition, each radio broadcast will conclude with an announcement of the Water Education Foundation's internet address and phone number. An indirect measure of the interest in the content of the broadcasting would be the resulting visits to the web site, a number that can be tracked by reviewing the number of visits logged into the site. The amount of phone calls received can also be tracked as Foundation staff answers the phone, rather than a voice mail system, and new callers will be asked if they heard the broadcasts.

► **Hydroexplorer: A California Waterways Adventure**

The success of the Hydroexplorer game is based on how many of the games are utilized by educators. By building the distribution of 500 games into this project, it is assured that many children will learn more about California and Delta water issues. The games will be distributed on an ongoing basis to keep this success going. In addition, major sections of the game will be posted to the Foundation web site, and the number of times people visit the game will be recorded.

► **Journalists Tour of the Bay-Delta**

Each of the Foundation's tours is evaluated by the participants. Similar to the attached tour evaluation summary, this evaluation provides information on how participants received the information presented, whether the organization of the tour was conducive to learning, and what the participants would like to learn in a future tour. An evaluation will be requested of the tour in 2000, and the evaluations of the May 1999 tour will be used to plan for the 2000 tour.

► **Update "Setting a Course: the California Bay-Delta"**

The results of the documentary will be monitored by accounting for the number of viewers projected by the stations that air the program. By accounting for the time of day the program is aired, the geographic region reached, and the number of re-runs, the number of viewers can be estimated. Viewership of the current documentary is approximately 500,000. This large distribution makes it imperative that the program be updated to be current with CALFED developments.

Local Involvement

Over the years, the Water Education Foundation has created many partnerships with state and federal agencies, private organizations, and individuals working with water resources. These relationships make it possible to integrate local involvement with environmental education programs such as this.

► **Briefing Paper on Wetlands and Marshes**

An advisory committee will be created during the production of this publication. Diverse points of view and areas of expertise will be represented on this committee to ensure that all aspects of wetlands and marshes are addressed thoroughly. In addition, major portions of the Briefing will be posted on the Foundation web site, making it accessible to most watershed groups, resource conservation districts, and other entities looking for information.

► **Radio Minutes Broadcasts**

Much like the Briefing Paper on Wetlands and Marshes, the radio programs will include much involvement of other entities. For each topic discussed, experts will be chosen from other organizations or agencies to review how the Foundation has formulated the program. For powerful education projects such as this, the shared vision of multiple entities add value.

► **Hydroexplorer: A California Waterways Adventure**

The Water Education Foundation has a strong reputation for designing quality education programs that fulfill the state's teaching requirements, and has build strong relationships with local and state-wide educational institutions and programs that interface with educators. Building on these relationships and the constant need for educational tools that integrate the lessons of history, social science, and water, the Foundation commits to providing 500 complimentary copies of this revised Hydroexplorer game to all the County Offices of Education in California and to many water district education programs that have used the original game in their programs.

► **Journalists Tour of the Bay-Delta**

Water Education Foundation tours require local involvement as speakers are solicited to present local and regional topics. Pending speakers for the 1999 Bay-Delta journalists tour represent entities including CALFED, U.S. Fish and Wildlife Service, State Water Resources Control Board, California Urban Water Agencies, and the Bay Institute of San Francisco.

► **Update "Setting a Course: the California Bay-Delta"**

Similarly, the nature of an inclusive documentary necessitates public involvement. Representation of the diverse stakeholders in the CALFED discussions will be involved in revising this program. Viewpoints represented will be provided by public and private interests within the environmental, agricultural, and urban communities.

Budget

The staff costs for Foundation personnel is \$50 per hour, with an administrative overhead of 20%. The specific budget items for each project in the 1999/2000 Bay-Delta Education Program are detailed below.

► **Briefing Paper on Wetlands and Marshes**

Total cost: \$24,700 *Schedule:* Fall 1999 - Summer 2000

In addition to staff time, the service contract fees are based on printing and design fees, expected to total \$8,500. The \$300 of material acquisition accounts for the purchase of photographs for the publication.

► **Water Minute Radio Broadcasts**

Total cost: \$40,100 *Schedule:* Fall 1999 - Spring 2000

The service contract fees (\$7,500) are based on production estimates for the radio programs. The misc. and other direct costs include funds for buying air time to supplement donated air time. Given that the FCC no longer requires stations to donate time, this project is budgeted to buy enough time to make the project a success. \$20,000 is allocated for buying 2 radio spots per week on 2 stations each within the Fresno, Redding, Sacramento, and San Francisco Bay Area regions. Average cost per minute is \$125. The additional \$6,000 in this category is an addition to this project that would broadcast the Water Minutes to the San Diego and Los Angeles areas.

► **Hydroexplorer: A California Waterways Adventure**

Total cost: \$28,800 *Schedule:* Fall 1999 - Fall 2000

The service contracts are a large part of this budget as the computer programming is the largest component of the project. The cost (\$12,000) is based on similar work by a highly qualified small business vendor. Service contract fees also include the printing and design of Hydroexplorer packaging (\$3,500), duplication of the games themselves (\$1,000), and new art for the addition of Bay-Delta lessons (\$500), and revisions necessary for placing the game on the internet (\$3,500). Other direct costs include the distribution of 500 of the revised Hydroexplorer games to educators (500 games at \$5 each) and mailing costs (\$1,000).

► **Journalists Tour of the Bay-Delta**

Total cost: \$7,600 *Schedule:* Winter 2000 - Spring 2000

The Journalists Tour of the Bay-Delta is budgeted reflecting the current expenses of the 1999 tour to be held in May 1999. Service contract fees are based on renting a boat and a bus for the tour. The material acquisition fee is for materials that the Foundation provides to the participants, including maps and books. Other direct costs include the meal that the journalists are provided.

► **Update "Setting a Course: the California Bay-Delta"**

Total cost: \$21,300 *Schedule:* Summer 1999 - Spring 2000 (tentative)

The actual timing of this project is based on the release of CALFED's new draft programmatic EIS/EIR. In addition to Foundation staff time, service contract fees include the producer, videographer, the design and printing of the Viewer's Guide, and tape duplication. Material acquisition included the purchase of tapes.

Cost Sharing

In addition to the synergistic support of the activities of the Water Education Foundation, some of the programs in the 1999/2000 Bay-Delta Education Program have matching gifts associated with them.

► **Briefing Paper on Wetlands and Marshes**

Major portions of the Briefing will be available on the Foundation's internet site. This is important for increasing the level of access to the information contained in the briefing, and will make it possible for the Foundation to update the publication as necessary. The staff costs for keeping the electronic Briefing up-to-date is estimated to be \$6,000 per year, which is not included in this proposal to CALFED. The designer of the Foundation's publications provides a discount to the organization, saving the project an additional \$650. In addition, 80 hours of writing and research time are paid for by the Foundation, and not included in the staff time attributed to this grant. This \$4,000 contribution is because we strongly believe in the value of this publication. Cost share: \$10,650

► **Water Minute Radio Broadcasts**

Production of the radio broadcasts is made possible by in-kind contributions of the production personnel, who have been long-time supporters of the Water Education Foundation. Production is being offered at half the normal fee, saving the project \$7,500. Radio time contributed to this project based on the relationships that the Foundation has with the media is estimated to be twice what is paid for, saving the project \$26,000. Cost share: \$33,500.

► **Hydroexplorer: A California Waterway Adventure**

This project can be implemented so inexpensively because the project leverages funds contributed toward this computer game by the Department of Water Resource and the National Geographic Teacher's Alliance, Northern California. The money leveraged totals \$10,000. The game benefits from past work because all of the artwork commission on the original game can be utilized. Also, the Hydroexplorer game will also be largely available on the Foundation's internet site. This is critical as elementary teachers like to test a game and be sure that it fits with their lesson plans before they integrate the game into their class schedules. The costs of maintaining this internet presence, including hosting fees, 35% of one of Foundation's staff persons time are not included in the proposal to CALFED, and a portion of these are Foundation's match to this contract. Estimated cost share of this is \$15,000. Total cost share: \$25,000.

► **Journalists Tour of the Bay-Delta**

This investment into this tour will be heavily supplemented by contributions by federal, state, and local agencies, organizations, and individuals who voluntarily speak to the participants. These speakers are the key to the tours, as they share valuable insights and viewpoints on Delta issues with the participants. The contribution of these speakers saves this project an estimated \$50 per hour for each of the approximate 15 speakers, who spend an average of 3 hours with the tour. Cost share: \$2,250.

► **Update "Setting a Course: the California Bay-Delta"**

The Foundation makes a commitment to keeping its programs and materials current as long as they can be useful for educating the public. The public television documentary highlighting the Bay-Delta and the CALFED program is no exception. Updating the documentary to date has been made possible by the Hans Doe Trust which so far has contributed \$15,000 toward the maintenance of this valuable outreach tool. Combined with general support funds, the Foundation revised the documentary after the release of CALFED's December 1998 draft program release, and will be releasing this new program to the PBS satellite system on April 18th, 1999. The Foundation made all of this revised footage available to CALFED for production of a summary video produced in January 1999. Cost share: \$15,000.

Applicant Qualifications

The Water Education Foundation has been a unique source of education materials about water for more than 20 years. The intent of the Foundation's many programs is to lead to a broader understanding of water issues and to the resolution of water problems. The Foundation has developed a strong reputation for maintaining a high commitment to objectivity and impartiality, resulting in respect from and partnerships with parties on all sides of water resource debates.

The multi-segmented 1999/2000 Bay-Delta Education Program will utilize these strengths to educate school children, voters, land managers, water resource professionals, and many other citizens, and create a higher visibility of the issues that CALFED is striving to address. Only with public awareness and understanding can the public value and support CALFED objectives.

The programs outlined in this proposal - the Briefing Paper on Wetlands, and Marshes; Water Minute radio broadcasts, the revised Hydroexplorer computer game, the journalists tour, and the updated public television documentary - will make the most of the skills of the Foundation's staff and documentary production team. Rita Schmidt Sudman, Foundation executive director, will oversee all of the programs and will use her special media expertise for production of the radio broadcasts and the documentary. Sue McClurg, chief writer, will be responsible for the wetlands Briefing paper and will assist with the journalists' tour and the viewer's guide for the documentary. Judy Wheatley, education director, will manage the Hydroexplorer game revision and will create the new education components focusing on the Bay-Delta. Sue Pearson Atkinson and John Davis will work with Rita Schmidt Sudman on the revision of the documentary.

Rita Schmidt Sudman, Executive Director

Ms. Sudman has been the executive director of the Foundation since 1979, shortly after its inception. As a former radio and television reporter and producer, she continues to produce programming on western water issues for public television and she works with the media on reporting water stories. Her award-winning work has been recognized by the Public Broadcasting System and National Geographic Society. Ms. Sudman holds a master's degree in telecommunications from San Diego State University. She serves on the board of directors of the University of California Water Resources Center and Archives, is chair of the Water History Project, and chair of California Education Groundwater Consortium. She is also on the national board of directors of Water for People.

Sue McClurg, Chief Writer

Ms. McClurg will be responsible for writing the Briefing Paper on Wetlands and Marshes and the Viewer's Guide to accompany the updated documentary. She is the writer of the Water Education Foundation's bimonthly magazine, *Western Water*, and has received several regional awards for her work. In addition, Sue is writer/editor of the Layperson's Guide series and other publications. Her in-depth knowledge of water issues and experience researching and reporting on complex water issues makes her well qualified to write the viewer's guide, which will make information on the issues affecting the Bay-Delta accessible to thousands of adults and school children.

Judy Wheatley, Education Director

As Education Director, Ms. Wheatley conducts workshops for school teachers, develops and writes school programs, and represents the Foundation with educators throughout California and the nation. She is the California coordinator for national Project WET (Water Education for Teachers). Through her work with students and teachers, she will be using, modeling and distributing the "Setting a Course" Viewer's Guide to

be used in schools. Ms. Wheatley also conducts the many tours of the Foundation, including the CALFED Journalists Tour taking place in 1999 and proposed for 2000. Ms. Wheatley holds a B.A. in biological sciences and an M.A. in education from Stanford University.

Sue Pearson Atkinson, Producer and Writer

Ms. Atkinson has a long history of successful production and regularly provides her expertise to PBS, ABC, and CBS affiliates. Through her partnership with the Water Education Foundation, Ms. Pearson Atkinson has produced "Setting A Course: The California Bay-Delta" and "Healing the Water" which received three Emmy nominations, and several other productions which brought water education into the homes of millions of Californians and others.

Ms. Atkinson has received many prestigious awards for her work, including an Emmy award, five Emmy nominations, a Gold Award from the National Conference of Christians and Jews, a Gold Award from the National Mental Health Association, the Howard W. Blakeslee Award, and the Best of the West, Western U.S. Journalism Consortium Award, among others.

John Davis, Videographer and Editor

Mr. Davis is a former KVIE (PBS, Sacramento) photographer. Now an independent photographer, Mr. Davis will serve as the chief videographer and editor of the documentary. Mr. Davis has worked with Ms. Atkinson on previous documentaries, including "Healing the Water," which received three Emmy nominations.

**Briefing Paper on
Wetlands and Marshes**

Task	Direct Labor Hours	Direct Salary and Benefits	Service Contracts	Material and Acquisition Costs	Misc. and other Direct Costs	Overhead and Indirect Costs	Total Cost
Project Management	40	2,000				400	2,400
Research	75	3,750				750	4,500
Writing	80	4,000				800	4,800
Reviewing/editing	50	2,500				500	3,000
Design/printing	0	0	8,500	300		0	8,800
Addition to web	20	1,000				200	1,200
TOTAL	265	\$ 13,250	\$ 8,500	\$ 300	\$ -	\$ 2,650	\$ 24,700

Task	Quarterly Budget Oct - Dec 99	Quarterly Budget Jan- Mar 00	Quarterly Budget Apr- Jun 00	Quarterly Budget Jul- Sep 00	Total
Project Management	800	800	800		2,400
Research	2,250	2,250			4,500
Writing		2,400	2,400		4,800
Reviewing/editing			3,000		3,000
Design/printing				8,800	8,800
Addition to web				1,200	1,200

1-021062

1-021062

Water Minute Radio Broadcasts

Task	Direct Labor Hours	Direct Salary and Benefits	Service Contracts	Material and Acquisition Costs	Misc. and other Direct Costs	Overhead and Indirect Costs	Total Cost
Project Management	40	2,000				400	2,400
Research	20	1,000				200	1,200
Production	10	500	7,500			100	8,100
Distribution	40	2,000			20,000	400	22,400
Additional Distribution*		0			6,000		6,000
	110	\$ 5,500	\$ 7,500	\$ -	\$ 26,000	\$ 1,100	\$ 40,100

* Southern CA

Task	Quarterly Budget Oct - Dec 99	Quarterly Budget Jan- Mar 00	Quarterly Budget Apr- Jun 00	Total
Project Management	800	800	800	\$ 2,400
Research	600	600		\$ 1,200
Production		4,050	4,050	\$ 8,100
Distribution			22,400	\$ 22,400
Additional Distribution*			6,000	\$ 6,000

1-021063

1-021063

**Hydroexplorer:
A California Waterways Adventure**

Task	Direct Labor Hours	Direct Salary and Benefits	Service Contracts	Material and Acquisition Costs	Misc. and other Direct Costs	Overhead and Indirect Costs	Total Cost
Project Management	35	1,750				350	2,100
Research	35	1,750				350	2,100
Programming		0	12,000			0	12,000
Production		0	5,000			0	5,000
Distribution	10	500	3,500		3,500	100	7,600
	\$ 80	\$ 4,000	\$ 20,500	\$ -	\$ 3,500	\$ 800	\$ 28,800

Task	Quarterly Budget Oct - Dec 99	Quarterly Budget Jan- Mar 00	Quarterly Budget Apr- Jun 00	Quarterly Budget Jul- Sep 00	Total
Project Management	525	525	525	525	\$ 2,100
Research	700	700	700		\$ 2,100
Programming		6,000	6,000		\$ 12,000
Production			2,500	3,500	\$ 6,000
Distribution				6,600	\$ 6,600

1-021064

1-021064

**Journalists Tour of the
Bay-Delta**

Task	Direct Labor Hours	Direct Salary and Benefits	Service Contracts	Material and Acquisition Costs	Misc. and other Direct Costs	Overhead and Indirect Costs	Total Cost
Project Management	10	500				100	600
Planning	40	2,000				400	2,400
Marketing	15	750				150	900
Implementation	10	500	1,750	900	450	100	3,700
	75	\$ 3,750	\$ 1,750	\$ 900	\$ 450	\$ 750	\$ 7,600

Task	Quarterly Budget Oct - Dec 99	Quarterly Budget Jan- Mar 00	Quarterly Budget Apr- Jun 00	Total
Project Management		300	300	\$ 600
Planning		1,200	1,200	\$ 2,400
Marketing		450	450	\$ 900
Implementation			3,700	\$ 3,700

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I-021065

"Setting a Course for the Bay-Delta" update

Task	Direct Labor Hours	Direct Salary and Benefits	Service Contracts	Material and Acquisition Costs	Misc. and other Direct Costs	Overhead and Indirect Costs	Total Cost
Project Management	30	1,500				300	1,800
Research	20	1,000				200	1,200
Production	30	1,500	15,400	500		300	17,700
Distribution	10	500				100	600
	90 \$	4,500 \$	15,400 \$	500 \$	- \$	900 \$	21,300

Task	Quarterly Budget Jul- Sep 99	Quarterly Budget Oct- Dec 99	Quarterly Budget Jan- Mar 00	Quarterly Budget Apr- June 00	Total
Project Management	450	450	450	450 \$	1,800
Research	400	400	400	\$	1,200
Production		5,900	5,900	5,900 \$	17,700
Distribution				600 \$	600

1-021066

1-021066

UNIVERSITY OF CALIFORNIA, DAVIS

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SANTA BARBARA • SANTA CRUZ

COLLEGE OF AGRICULTURAL AND
ENVIRONMENTAL SCIENCES
AGRICULTURAL EXPERIMENT STATION
COOPERATIVE EXTENSION

DEPARTMENT OF WILDLIFE, FISH AND CONSERVATION BIOLOGY
ONE SHIELDS AVENUE
DAVIS, CALIFORNIA 95616-8751
FAX (530) 752-4154

April 12, 1999

CALFED Bay-Delta Program
1416 Ninth Street, Suite 1155
Sacramento, CA 95814

Dear CALFED representatives:

I am pleased to support the proposal by the Water Education Foundation to develop a public education program that would increase public awareness and understanding of Bay-Delta issues. These programs are consistent with the CALFED Bay-Delta Program's goal to foster public involvement and participation in solving resource problems.

The Water Education Foundation has a strong reputation for creating professional, complete, and impartial information on water issues. For more than 20 years, this information has been used by water managers, agricultural representatives, agencies, the general public, and the academic community. The Foundation has created strong partnerships with diverse stakeholder groups and ensures that accurate information is available to them.

The Foundation is proposing a publication on wetlands and marshes, a series of one-minute radio spots, an updated computer game for elementary students, a tour of the Bay-Delta for journalists, and an updated public television documentary that has been so useful for educating the public about CALFED and the bay-delta. Each of these projects furthers CALFED's goals by encouraging responsible water use, support for restoration projects, and increased care regarding non-native species and habitat conservation.

With the support of CALFED funding, the Water Education Foundation can create these valuable programs that will make bay-delta issues conversation topics for Californians, including upper elementary students, adults, rural and urban populations, and stakeholders involved in water resource policy. I urge you to support these projects.

Sincerely,

A handwritten signature in dark ink, appearing to read "Peter B. Moyle", is written over the typed name.

Peter B. Moyle, Professor
Wildlife, Fish & Conservation Biology



Cosumnes River Preserve
13501 Franklin Boulevard
Galt, California 95632

International Headquarters
Arlington, Virginia

TEL 916 683-2142
FAX 916 683-1702

April 12, 1999

Lester Snow, Director
CALFED Bay-Delta Program
1416 Ninth Street, Suite 1155
Sacramento, CA 95814

Dear Lester:

I understand that the Water Education Foundation will be seeking CALFED support for new and expanded programs to increase the public's awareness of the problems faced in the Bay-Delta system, and by highlighting ways in which the state's water users can be a part of the solutions.

The programs proposed by the Foundation, a booklet on wetlands and marshes, one-minute radio spots, a revised Hydroexplorer game, a journalists bay-delta tour, and an updated documentary on the bay-delta, are all programs that support the work of The Nature Conservancy and other individuals, agencies, and organizations working toward sustainable water and ecosystem management.

Thank you for your serious consideration of the Water Education Foundation's proposed education programs. The professionalism, thoroughness, and balance of the Foundation's past work bodes well for the success of these programs.

Sincerely,

A handwritten signature in cursive script, appearing to read "Mike Eaton".

Mike Eaton
Project Director



El Dorado County Resource Conservation District
100 Forni Road, Suite A • Placerville, CA 95667 • Phone (530) 295-5630, FAX (530) 295-5635

4-15-99

To: Cal Fed

From: Kim Epperson
Program Coordinator

We have returned the DOS Hydroexplorer teaching programs due to their incompatibility with our computer. We were going to distribute the programs to our schools, but they use the Windows operating system also. This program would have been a great addition to our science and water project that we are doing with our schools. We look forward to a possible Windows version.

If you have any questions please don't hesitate to call me at 530-295-5637.

NONDISCRIMINATION COMPLIANCE STATEMENT

STD. 16 (REV. 3-89) FMC

COMPANY NAME

Water Education Foundation

The company named above (hereinafter referred to as "prospective contractor") hereby certifies, unless specifically exempted, compliance with Government Code Section 12990 (a-f) and California Code of Regulations, Title 2, Division 4, Chapter 5 in matters relating to reporting requirements and the development, implementation and maintenance of a Nondiscrimination Program. Prospective contractor agrees not to unlawfully discriminate, harass or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, disability (including HIV and AIDS), medical condition (cancer), age, marital status, denial of family and medical care leave and denial of pregnancy disability leave.

CERTIFICATION

I, the official named below, hereby swear that I am duly authorized to legally bind the prospective contractor to the above described certification. I am fully aware that this certification, executed on the date and in the county below, is made under penalty of perjury under the laws of the State of California.

OFFICIAL'S NAME

Rita Schmidt Sudman

DATE EXECUTED

4-15-99

EXECUTED IN THE COUNTY OF

Sacramento

PROSPECTIVE CONTRACTOR'S SIGNATURE

PROSPECTIVE CONTRACTOR'S TITLE

Executive Director

PROSPECTIVE CONTRACTOR'S LEGAL BUSINESS NAME

Water Education Foundation

**STANDARD CLAUSES --
SMALL BUSINESS PREFERENCE AND CONTRACTOR IDENTIFICATION NUMBER**

NOTICE TO ALL BIDDERS:

Section 14835, et. seq. of the California Government Code requires that a five percent preference be given to bidders who qualify as a small business. The rules and regulations of this law, including the definition of a small business for the delivery of service, are contained in Title 2, California Code of Regulations, Section 1896, et. seq. A copy of the regulations is available upon request. Questions regarding the preference approval process should be directed to the Office of Small and Minority Business at (916) 322-5060. To claim the small business preference, you must submit a copy of your certification approval letter with your bid.

Are you claiming preference as a small business?

____ Yes* X No

*Attach a copy of your certification approval letter.

U.S. Department of the Interior

Certifications Regarding Debarment, Suspension and
Other Responsibility Matters, Drug-Free Workplace
Requirements and Lobbying

Persons signing this form should refer to the regulations referenced below for complete instructions:

Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions - The prospective primary participant further agrees by submitting this proposal that it will include the clause titled, "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions. See below for language to be used; use this form for certification and sign; or use Department of the Interior Form 1954 (DI-1954). (See Appendix A of Subpart D of 43 CFR Part 12.)

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions - (See Appendix B of Subpart D of 43 CFR Part 12.)

Certification Regarding Drug-Free Workplace Requirements - Alternate I. (Grantees Other Than Individuals) and Alternate II. (Grantees Who are Individuals) - (See Appendix C of Subpart D of 43 CFR Part 12)

Signature on this form provides for compliance with certification requirements under 43 CFR Parts 12 and 18. The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of the Interior determines to award the covered transaction, grant, cooperative agreement or loan.

PART A: Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions

CHECK ☒ IF THIS CERTIFICATION IS FOR A PRIMARY COVERED TRANSACTION AND IS APPLICABLE.

- (1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
 - (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
 - (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
 - (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- (2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

PART B: Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions

CHECK ☐ IF THIS CERTIFICATION IS FOR A LOWER TIER COVERED TRANSACTION AND IS APPLICABLE.

- (1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- (2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

DI-2418
March 1995
(This form incorporates DI-1952, DI-1954,
DI-1955, DI-1956 and DI-1957)

PART C: Certification Regarding Drug-Free Workplace Requirements

CHECK ☒ IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS NOT AN INDIVIDUAL.

Alternate I. (Grantees Other Than Individuals)

A. The grantee certifies that it will or continue to provide a drug-free workplace by:

- (a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;
- (b) Establishing an ongoing drug-free awareness program to inform employees about--
 - (1) The dangers of drug abuse in the workplace;
 - (2) The grantee's policy of maintaining a drug-free workplace;
 - (3) Any available drug counseling, rehabilitation, and employee assistance programs; and
 - (4) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
- (c) Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph (a);
- (d) Notifying the employee in the statement required by paragraph (a) that, as a condition of employment under the grant, the employee will --
 - (1) Abide by the terms of the statement; and
 - (2) Notify the employer in writing of his or her conviction for a violation of a criminal drug statute occurring in the workplace no later than five calendar days after such conviction;
- (e) Notifying the agency in writing, within ten calendar days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such conviction. Employers of convicted employees must provide notice, including position title, to every grant officer on whose grant activity the convicted employee was working, unless the Federal agency has designated a central point for the receipt of such notices. Notice shall include the identification numbers(s) of each affected grant;
- (f) Taking one of the following actions, within 30 calendar days of receiving notice under subparagraph (d)(2), with respect to any employee who is so convicted --
 - (1) Taking appropriate personnel action against such an employee, up to and including termination, consistent with the requirements of the Rehabilitation Act of 1973, as amended; or
 - (2) Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;
- (g) Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs (a) (b), (c), (d), (e) and (f).

B. The grantee may insert in the space provided below the site(s) for the performance of work done in connection with the specific grant:

Place of Performance (Street address, city, county, state, zip code)

717 K Street, Suite 517, Sacramento, CA 95814

Check ☐ if there are workplaces on file that are not identified here.

PART D: Certification Regarding Drug-Free Workplace Requirements

CHECK ☐ IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS AN INDIVIDUAL.

Alternate II. (Grantees Who Are Individuals)

- (a) The grantee certifies that, as a condition of the grant, he or she will not engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in conducting any activity with the grant;
- (b) If convicted of a criminal drug offense resulting from a violation occurring during the conduct of any grant activity, he or she will report the conviction, in writing, within 10 calendar days of the conviction, to the grant officer or other designee, unless the Federal agency designates a central point for the receipt of such notices. When notice is made to such a central point, it shall include the identification number(s) of each affected grant.

APPLICATION FOR FEDERAL ASSISTANCE

OMB Approval No. 0348-00

1. TYPE OF SUBMISSION: Application <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Non-Construction Preapplication <input type="checkbox"/> Construction <input type="checkbox"/> Non-Construction		2. DATE SUBMITTED 	Applicant Identifier
3. DATE RECEIVED BY STATE 		State Application Identifier 	
4. DATE RECEIVED BY FEDERAL AGENCY 		Federal Identifier 	

5. APPLICANT INFORMATION Legal Name: <u>Water Education Foundation</u> Address (give city, county, State, and zip code): <u>717 K Street, Ste 517, Sac, CA 95814</u>		Organizational Unit: Name and telephone number of person to be contacted on matters involving this application (give area code): <u>Rita Schmidt Sudman, 916-444-6240</u>																											
6. EMPLOYER IDENTIFICATION NUMBER (EIN): <u>94-2419885</u>	7. TYPE OF APPLICANT: (enter appropriate letter in box) <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> A. State B. County C. Municipal D. Township E. Interstate F. Intermunicipal G. Special District </div> <div style="width: 45%;"> H. Independent School Dist. I. State Controlled Institution of Higher Learning J. Private University K. Indian Tribe L. Individual M. Profit Organization N. Other (Specify) <u>Nonprofit</u> </div> </div>																												
8. TYPE OF APPLICATION: <div style="display: flex; justify-content: space-around;"> <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision </div> If Revision, enter appropriate letter(s) in box(es) <input type="checkbox"/> <input type="checkbox"/> A. Increase Award B. Decrease Award C. Increase Duration D. Decrease Duration Other (specify): 																													
9. NAME OF FEDERAL AGENCY: 																													
10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER: <div style="text-align: center;"> <input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </div> TITLE: 																													
11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT: <u>1999/2000 Bay-Delta Environmental Education Program</u>																													
12. AREAS AFFECTED BY PROJECT (Cities, Counties, States, etc.): <u>California</u>																													
13. PROPOSED PROJECT <u>Educ. Program</u> Start Date Ending Date <u>9/99</u> <u>12/00</u>	14. CONGRESSIONAL DISTRICTS OF: <u>All in CA</u> a. Applicant <u>Water Education Foundation</u>																												
15. ESTIMATED FUNDING: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">a. Federal</td> <td style="width: 10%;">\$</td> <td style="width: 40%; text-align: center;">122,500</td> <td style="width: 10%; text-align: right;">.00</td> </tr> <tr> <td>b. Applicant</td> <td>\$</td> <td style="text-align: center;">86,400</td> <td style="text-align: right;">.00</td> </tr> <tr> <td>c. State</td> <td>\$</td> <td></td> <td style="text-align: right;">.00</td> </tr> <tr> <td>d. Local</td> <td>\$</td> <td></td> <td style="text-align: right;">.00</td> </tr> <tr> <td>e. Other</td> <td>\$</td> <td></td> <td style="text-align: right;">.00</td> </tr> <tr> <td>f. Program Income</td> <td>\$</td> <td></td> <td style="text-align: right;">.00</td> </tr> <tr> <td>g. TOTAL</td> <td>\$</td> <td style="text-align: center;">208,900</td> <td style="text-align: right;">.00</td> </tr> </table>		a. Federal	\$	122,500	.00	b. Applicant	\$	86,400	.00	c. State	\$.00	d. Local	\$.00	e. Other	\$.00	f. Program Income	\$.00	g. TOTAL	\$	208,900	.00
a. Federal	\$	122,500	.00																										
b. Applicant	\$	86,400	.00																										
c. State	\$.00																										
d. Local	\$.00																										
e. Other	\$.00																										
f. Program Income	\$.00																										
g. TOTAL	\$	208,900	.00																										
16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS? a. YES. THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON: DATE _____ b. No. <input checked="" type="checkbox"/> PROGRAM IS NOT COVERED BY E. O. 12372 <input type="checkbox"/> OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW																													
17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT? <input type="checkbox"/> Yes If "Yes," attach an explanation. <input checked="" type="checkbox"/> No																													
18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">a. Type Name of Authorized Representative <u>Rita Schmidt Sudman</u></td> <td style="width: 20%;">b. Title <u>Executive Director</u></td> <td style="width: 40%;">c. Telephone Number <u>916-444-6240</u></td> </tr> <tr> <td colspan="2">d. Signature of Authorized Representative <u>Rita Schmidt Sudman</u></td> <td>e. Date Signed <u>4-15-99</u></td> </tr> </table>		a. Type Name of Authorized Representative <u>Rita Schmidt Sudman</u>	b. Title <u>Executive Director</u>	c. Telephone Number <u>916-444-6240</u>	d. Signature of Authorized Representative <u>Rita Schmidt Sudman</u>		e. Date Signed <u>4-15-99</u>																						
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Prescribed by OMB Circular A-102

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I-021074

PART E: Certification Regarding Lobbying
Certification for Contracts, Grants, Loans, and Cooperative Agreements

CHECK IF CERTIFICATION IS FOR THE AWARD OF ANY OF THE FOLLOWING AND THE AMOUNT EXCEEDS \$100,000: A FEDERAL GRANT OR COOPERATIVE AGREEMENT; SUBCONTRACT, OR SUBGRANT UNDER THE GRANT OR COOPERATIVE AGREEMENT.

CHECK IF CERTIFICATION IS FOR THE AWARD OF A FEDERAL LOAN EXCEEDING THE AMOUNT OF \$150,000, OR A SUBGRANT OR SUBCONTRACT EXCEEDING \$100,000, UNDER THE LOAN.

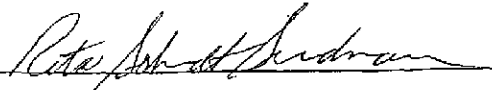
The undersigned certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

As the authorized certifying official, I hereby certify that the above specified certifications are true.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL



TYPED NAME AND TITLE

Rita Schmidt Sudman

DATE

4-15-99

INSTRUCTIONS FOR THE SF-424

Public reporting burden for this collection of information is estimated to average 45 minutes per response, including time for review instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0043), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

This is a standard form used by applicants as a required facesheet for preapplications and applications submitted for Federal assistance will be used by Federal agencies to obtain applicant certification that States which have established a review and comment procedure response to Executive Order 12372 and have selected the program to be included in their process, have been given an opportunity to review the applicant's submission.

- | Item: | Entry: | Item: | Entry: |
|---|--------|--|--------|
| 1. Self-explanatory. | | 12. List only the largest political entities affected (e.g., State counties, cities). | |
| 2. Date application submitted to Federal agency (or State if applicable) and applicant's control number (if applicable). | | 13. Self-explanatory. | |
| 3. State use only (if applicable). | | 14. List the applicant's Congressional District and any District(s) affected by the program or project. | |
| 4. If this application is to continue or revise an existing award, enter present Federal identifier number. If for a new project, leave blank. | | 15. Amount requested or to be contributed during the first funding/budget period by each contributor. Value of in-kind contributions should be included on appropriate lines as applicable. If the action will result in a dollar change to an existing award, indicate <u>only</u> the amount of the change. For decreases, enclose the amounts in parentheses. If both basic and supplemental amounts are included, show breakdown on an attached sheet. For multiple program funding, use totals and show breakdown using same categories as item 15. | |
| 5. Legal name of applicant, name of primary organizational unit which will undertake the assistance activity, complete address of the applicant, and name and telephone number of the person to contact on matters related to this application. | | 16. Applicants should contact the State Single Point of Contact (SPOC) for Federal Executive Order 12372 to determine whether the application is subject to the State intergovernmental review process. | |
| 6. Enter Employer Identification Number (EIN) as assigned by the Internal Revenue Service. | | 17. This question applies to the applicant organization, not the person who signs as the authorized representative. Categories of debt include delinquent audit disallowances, loans and taxes. | |
| 7. Enter the appropriate letter in the space provided. | | 18. To be signed by the authorized representative of the applicant. A copy of the governing body's authorization for you to sign this application as official representative must be on file in the applicant's office (Certain Federal agencies may require that this authorization be submitted as part of the application.) | |
| 8. Check appropriate box and enter appropriate letter(s) in the space(s) provided: | | | |
| -- "New" means a new assistance award. | | | |
| -- "Continuation" means an extension for an additional funding/budget period for a project with a projected completion date. | | | |
| -- "Revision" means any change in the Federal Government's financial obligation or contingent liability from an existing obligation. | | | |
| 9. Name of Federal agency from which assistance is being requested with this application. | | | |
| 10. Use the Catalog of Federal Domestic Assistance number and title of the program under which assistance is requested. | | | |
| 11. Enter a brief descriptive title of the project. If more than one program is involved, you should append an explanation on a separate sheet. If appropriate (e.g., construction or real property projects), attach a map showing project location. For preapplications, use a separate sheet to provide a summary description of this project. | | | |

SF-424 (Rev. 7-97)

BUDGET INFORMATION - Non-Construction Programs

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. Educ. Program		\$	\$	\$ 122,500	\$ 86,400	\$ 208,900
2.						
3.						
4.						
5. Totals		\$	\$	\$ 122,500	\$ 86,400	\$ 208,900

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1)	(2)	(3)	(4)	
a. Personnel	\$ 31,000	\$	\$	\$	\$ 31,000
b. Fringe Benefits					
c. Travel					
d. Equipment					
e. Supplies	1,700				1,700
f. Contractual	53,650				53,650
g. Construction					
h. Other	29,950				29,950
i. Total Direct Charges (sum of 6a-6h)					
j. Indirect Charges	6,200				6,200
k. TOTALS (sum of 6i and 6j)	\$	\$	\$	\$	\$
7. Program Income	\$	\$	\$	\$	\$

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Prescribed by OMB Circular A-102

1-021077

1-021077

1-021078

SECTION C - NON-FEDERAL RESOURCES				
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS
8. Bay-Delta Education Program	\$ 86,400	\$ 122,500	\$	\$ 208,900
9.				
10.				
11.				
12. TOTAL (sum of lines 8 - 11)	\$ 86,400	\$ 122,500	\$	\$ 208,900

SECTION D - FORECASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ 13,275	\$	\$	\$ 850	\$ 12,425
14. NonFederal	34,560			17,280	17,280
15. TOTAL (sum of lines 13 and 14)					

SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT				
(a) Grant Program	FUTURE FUNDING PERIODS (Years) 2000			
	(b) First	(c) Second	(d) Third	(e) Fourth
16. Bay-Delta Education Program	\$ 26,825	\$ 61,775	\$ 20,625	\$
17.	17,280	17,280	17,280	
18.				
19.				
20. TOTAL (sum of lines 16-19)	\$ 44,105	\$ 79,055	\$ 37,905	\$

SECTION F - OTHER BUDGET INFORMATION	
21. Direct Charges: 116,300	22. Indirect Charges: 6,200
23. Remarks:	

1-021078

Public reporting burden for this collection of information is estimated to average 180 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0044), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

General Instructions

This form is designed so that application can be made for funds from one or more grant programs. In preparing the budget, adhere to any existing Federal grantor agency guidelines which prescribe how and whether budgeted amounts should be separately shown for different functions or activities within the program. For some programs, grantor agencies may require budgets to be separately shown by function or activity. For other programs, grantor agencies may require a breakdown by function or activity. Sections A, B, C, and D should include budget estimates for the whole project except when applying for assistance which requires Federal authorization in annual or other funding period increments. In the latter case, Sections A, B, C, and D should provide the budget for the first budget period (usually a year) and Section E should present the need for Federal assistance in the subsequent budget periods. All applications should contain a breakdown by the object class categories shown in Lines a-k of Section B.

Section A. Budget Summary Lines 1-4 Columns (a) and (b)

For applications pertaining to a *single* Federal grant program (Federal Domestic Assistance Catalog number) and *not* requiring a functional or activity breakdown, enter on Line 1 under Column (a) the catalog program title and the catalog number in Column (b).

For applications pertaining to a *single* program requiring budget amounts by multiple functions or activities, enter the name of each activity or function on each line in Column (a), and enter the catalog number in Column (b). For applications pertaining to multiple programs where none of the programs require a breakdown by function or activity, enter the catalog program title on each line in Column (a) and the respective catalog number on each line in Column (b).

For applications pertaining to a *multiple* programs where one or more programs require a breakdown by function or activity, prepare a separate sheet for each program requiring the breakdown. Additional sheets should be used when one form does not provide adequate space for all breakdown of data required. However, when more than one sheet is used, the first page should provide the summary totals by programs.

Lines 1-4, Columns (c) through (g)

For new applications, leave Columns (c) and (d) blank. For each line entry in Columns (a) and (b), enter in Columns (e), (f), and (g) the appropriate amounts of funds needed to support the project for the first funding period (usually a year).

For continuing grant program applications, submit these forms before the end of each funding period as required by the grantor agency. Enter in Columns (c) and (d) the estimated amounts of funds which will remain unobligated at the end of the grant funding period only if the Federal grantor agency instructions provide for this. Otherwise, leave these columns blank. Enter in Columns (e) and (f) the amounts of funds needed for the upcoming period. The amount(s) in Column (g) should be the sum of amounts in Columns (e) and (f).

For supplemental grants and changes to existing grants, do not use Columns (c) and (d). Enter in Column (e) the amount of the increase or decrease of Federal funds and enter in Column (f) the amount of the increase or decrease of non-Federal funds. In Column (g) enter the new total budgeted amount (Federal and non-Federal) which includes the total previous authorized budgeted amounts plus or minus, as appropriate, the amounts shown in Columns (e) and (f). The amount(s) in Column (g) should not equal the sum of amounts in Columns (e) and (f).

Line 5--Show the totals for all columns used.

Section B. Budget Categories

In the column headings (1) through (4), enter the titles of the same programs, functions, and activities shown on Lines 1-4, Column (a), Section A. When additional sheets are prepared for Section A, provide similar column headings on each sheet. For each program, function or activity, fill in the total requirements for funds (both Federal and non-Federal) by object class categories.

Lines 6a-i--Show the totals of Lines 6a and 6h in each column.

Line 6j--Show the amount of indirect cost.

Line 6k--Enter the total of amounts on Lines 6i and 6j. For all applications for new grants and continuation grants the total amount in column (5), Line 6k, should be the same as the total amount shown in Section A, Column (g), Line 5. For supplemental grants and changes to grants, the total amount of the increase or decrease as shown in Columns (1)-(4), Line 6k should be the same as the sum of the amounts in Section A, Columns (e) and (f) on Line 5.

Line 7--Enter the estimated amount of income, if any, expected to be generated from this project. Do not add or subtract this amount from the total project amount. Show under the program.

INSTRUCTIONS FOR THE SF-424A (continued)

narrative statement the nature and source of income. The estimated amount of program income may be considered by the federal grantor agency in determining the total amount of the grant

Section C. Non-Federal Resources

Lines 8-11--Enter amounts of non-Federal resources that will be used on the grant. If in-kind contributions are included, provide a brief explanation on a separate sheet.

Column (a) - Enter the program titles identical to Column (a), Section A. A breakdown by function or activity is not necessary.

Column (b) - Enter the contribution to be made by the applicant.

Column (c) - Enter the amount of the State's cash and in-kind contribution if the applicant is not a State or State agency. Applicants which are a State or State agencies should leave this column blank.

Column (d) - Enter the amount of cash and in-kind contributions to be made from all other sources.

Column (e) - Enter totals of Columns (b), (c), and (d).

Line 12--Enter the total for each of Columns (b)-(e). The amount in Column (e) should be equal to the amount on Line 5, Column (f) Section A.

Section D. Forecasted Cash Needs

Line 13--Enter the amount of cash needed by quarter from the grantor agency during the first year.

Line 14--Enter the amount of cash from all other sources needed by quarter during the first year.

Line 15--Enter the totals of amounts on Lines 13 and 14.

Section E. Budget Estimates of Federal Funds Needed for Balance of the Project.

Lines 16-19--Enter in Column (a) the same grant program titles shown in Column (a), Section A. A breakdown by function or activity is not necessary. For new applications and continuation grant applications, enter in the proper columns amounts of Federal funds which will be needed to complete the program or project over the succeeding funding period (usually in years). This section need not be completed for revisions (amendments, changes, or supplements) to funds for the current year of existing grants.

If more than four lines are needed to list the program titles, submit additional schedules as necessary.

Line 20--Enter the total for each of the Columns (b)-(e). When additional schedules are prepared for this Section, annotate accordingly and show the overall totals on this line.

Section F. Other Budget Information

Line 21--Use this space to explain amounts for individual direct object-class cost categories that may appear to be out of the ordinary or to explain the details as required by the Federal grantor agency.

Line 22--Enter the type of indirect rate (provisional, predetermined, final or fixed) that will be in effect during the funding period, the estimated amount of the base to which the rate is applied, and the total indirect expense.

Line 23--Provide any other explanations or comments deemed necessary.

ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

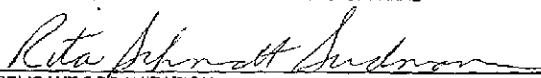
PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-546) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328), which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL		TITLE	
		Executive Director	
APPLICANT ORGANIZATION		DATE SUBMITTED	
Water Education Foundation		4-15-99	

Standard Form 424B (Rev. 7-97)